

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A ~~method~~, method comprising:

gathering information relating to a processor, wherein the information comprises
processor state information having one or more of characteristics of the processor,
history of the processor, characteristics of a first virtual machine and a second
virtual machine, history of the first and second virtual machines, and event
monitoring data;

evaluating the information relating to the processor; and

managing ~~a~~ the first virtual machine and ~~a~~ the second virtual machine via the

information, the managing of the first and second virtual machines including
managing a predetermined processing time allocated to each of the first virtual
machine and the second virtual machine, the managing further including
dynamically allocating resources including extending or, suspending, increasing,
or decreasing the predetermined processing time allocated to the first virtual
machine and or the second virtual machine, wherein the dynamically allocating
resources further includes suspending of the predetermined processing time
~~includes~~ switching tasks being performed on the first virtual machine to the
second virtual machine when the second virtual machine is determined to be
better at performing the tasks than the first virtual machine based on the
information, suspending the predetermined processing time allocated to the first
virtual machine and extending a predetermined processing time allocated to the
second virtual machine by granting the suspended predetermined processing time
allocated to the first virtual machine to the second virtual machine, wherein the

predetermined processing time is allocated by a central processing unit to perform the tasks.

2. (Previously Presented) The method of claim 1, further comprising monitoring the processor.

Claims 3-6 (Cancelled)

7. (Previously Presented) The method of claim 1, wherein the managing of the first and second virtual machines is performed by a virtual machine manager (VMM) comprising a state management unit.

Claims 8-16 (Cancelled)

17. (Currently Amended) A ~~system~~, system comprising:
a storage medium to store information relating to a processor coupled with the storage medium; and
a processor having a virtual machine manager (VMM), wherein the VMM to
gather information relating to the processor, wherein the information comprises
processor state information having one or more of characteristics of the
processor, history of the processor, characteristics of a first virtual
machine and a second virtual machine, history of the first and second
virtual machines, and event monitoring data,
evaluate the information relating to the processor, and
manage a first virtual machine and a second virtual machine via the information,
the managing of the first and second virtual machines including managing
a predetermined processing time allocated to each of the first virtual
machine and the second virtual machine, the managing further including

dynamically allocating resources including extending, or suspending, increasing, or decreasing the predetermined processing time allocated to the first virtual machine and/or the second virtual machine, wherein the dynamically allocating resources further includes suspending of the predetermined processing time includes switching tasks being performed on the first virtual machine to the second virtual machine when the second virtual machine is determined to be better at performing the tasks than the first virtual machine based on the information, suspending the predetermined processing time allocated to the first virtual machine and extending a predetermined processing time allocated to the second virtual machine by granting the suspended predetermined processing time allocated to the first virtual machine to the second virtual machine, wherein the predetermined processing time is allocated by a central processing unit to perform the tasks.

18. (Previously Presented) The system of claim 17, wherein the VMM comprises a state management unit to monitor the processor.

Claims 19-20 (Cancelled)

21. (Previously Presented) The system of claim 17, wherein the processor comprises one or more of microprocessors, hyperthreaded processors, digital signal processors, and microcontrollers.
22. (Cancelled)

23. (Previously Presented) The system of claim 17, wherein the first and second virtual machines comprise guest software, the guest software having one or more of an operating software and a software application.
24. (Currently Amended) A ~~machine-readable computer-readable storage medium~~ comprising instructions which, when executed by a processor, cause a machine to: gather information relating to a processor, wherein the information comprises processor state information having one or more of characteristics of the processor, history of the processor, characteristics of a first virtual machine and a second virtual machine, history of the first and second virtual machines, and event monitoring data; evaluate the information relating to the processor; and manage a first virtual machine and a second virtual machine via the information, the managing of the first and second virtual machines including managing a predetermined processing time allocated to each of the first virtual machine and the second virtual machine, the managing further including dynamically allocating resources including extending, ~~or~~-suspending, increasing, or decreasing the predetermined processing time allocated to the first virtual machine and the second virtual machine, wherein dynamically allocating resources further includes the suspending of the predetermined processing time includes switching tasks being performed on the first virtual machine to the second virtual machine when the second virtual machine is determined to be better at performing the tasks than the first virtual machine based on the information, suspending the predetermined processing time allocated to the first virtual machine and extending a

predetermined processing time allocated to the second virtual machine by granting the suspended predetermined processing time allocated to the first virtual machine to the second virtual machine, wherein the predetermined processing time is allocated by a central processing unit to perform the tasks.

25. (Previously Presented) The computer-readable storage machine-readable-medium of claim 24, wherein the instructions which, when executed, further cause the machine to monitor the processor.

Claims 26-29 (Cancelled)

30. (Previously Presented) The computer-readable storage machine-readable-medium of claim 24, wherein the managing of the first and second virtual machines is performed by a virtual machine manager (VMM) comprising a state management unit.